Membrane Pumps Solids Handling Pumps High Pressure Pumps Marine Pumps

ABEL Positive Displacement Pumps

Units for Process Engineering and optimal Solids Transport





4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48 Demande de prix / e-mail : service-commercial@motralec.com www.motralec.com

ABEL Reciprocating Positive Displacement Pumps. Development + Design + Manufacture + Service

Specialisation creates Know-How

When you are confronted with the decision concerning investments in the pump technology, you have the option of thousands of manufacturers worldwide. Almost all of them use first-class raw materials and modern production methods. Many of them have a functioning quality assurance system. Therefore, it does not matter how you decide.

Doesn't it really matter?

Specialisation creates Know-How

The physics of the different pump principles fundamentally differ from each other. Anybody mastering fluid machines in their function cannot utilise this knowledge in the field of positive displacement pumps – and vice versa. The decisive lead in know-how results from focusing. Only who specialises has the chance to gain experience, without which the real advanced technology does not and cannot develop.

ABEL focuses on reciprocating positive displacement pumps – on development, design, manufacture, marketing and, last but not least, service. Customized for your application.

One of the most comprehensive market surveys so far carried out by the "Hydraulic Institute" in the U.S. reveals: With our piston membrane pumps, tried and tested in practice over five decades, ABEL has, for example, attained the world market leadership in filter press feeding as well as with the latest product range: the Electromechanical Membrane Pumps. ABEL GmbH & Co. KG was among the first hundred German mechanical engineering companies who, in 1991, submitted their entire company activities to the standards of DIN ISO 9001, this was scarcely known at that time. After three successful certification procedures we now have the lead which has grown over many years in the application of our quality management system.

This can be seen in the detail:

- Monthly quality circle
- Daily set/actual schedule comparisons
- Final acceptance test for each pump.









ABEL EM - Electromechanical Membrane Pumps Capacity ranges up to 120 m³/h, up to 0.6 MPa

ABEL EM Metal



Capacity range: up to 120 m³/h; up to 0.6 MPa

The **ABEL EM Metal** is available in three different metal designs: Nodular cast iron (SG), stainless steel (ED) or aluminium (Al).

Through purposeful use of suitable, resistant materials for membranes, valve seats and balls you will achieve the best possible material combination for your application.

ABEL EM Plastic



Capacity range: up to 20 m³/h; up to 0.6 MPa

In the chemical industry and in other areas of process technology aggressive media require the use of high-quality plastics such as polypropylenes (PP) or PVDF, as well as explosion proof motors.

With **ABEL EM Plastic** ABEL provides excellent technology for these applications with flow rates up to max. 20 m³/h.



ABEL EM Metal

- Water and sewage industry
- Ceramic industry
- Land drainage
- Marble and stone plants
- Navigation, offshore
- Automobile industry
- Mechanical engineering
- Fire-fighting
- Paper industry
- Mining engineering
- Lacquer and paint industry
- Road tankers

ABEL EM Plastic

- Chemical industry
- Pharmaceutical industry
- Refineries
- Power plants

ABEL EM pump application

- Process pumps for the transfer of liquids and powders
- Filter press feeding
- Centrifuge feeding for metering

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ABEL CM / HM / HMT Capacity ranges up to 400 m³/h, up to 25.0 MPa

ABEL CM



Capacity range: up to 225 m³/h; up to 6.4 MPa

ABEL CM Compact Membrane

Pumps are simplex, single or double-acting specialists for difficult media. Day by day they underline their high availability and wear resistance in continuous operation. In extreme situations they are in their element.

ABEL CM Pumps – Specialists for difficult media

- Sludge transfer
- Filter press or spray dryer feeding
- Raw water transfer
- Transfer of abrasive, corrosive, acidic, alkaline, pigmented, viscous and granular media

ABEL HM



Capacity range: up to 116 m³/h; up to 10.0 MPa

The **ABEL HM Hydraulic Membrane Pumps** are equipped with a newly designed, preformed membrane and mechanical, pressure equalised membrane positioning.

The ABEL HM series is available in simplex single and double-acting design. It is characterised by high efficiency, smooth running and availability.

ABEL HM in action for

- Filter press feeding
- Sludge transfer
- Spray dryer feeding
- Incinerator feeding
- Metering

Used in many sectors:

- Ceramic industry
- Sewage works
- Mining industry
- Cement industry
- Electro plating industry
- Chemical/petrochemical industry
- Automobile industry

ABEL HMT



Capacity range: up to 400 m³/h; up to 25.0 MPa

The **ABEL HMT Hydraulic Membrane Pump** introduces the next generation of process pumps in the capacity range up to 25 MPa and for flow rates up to 400 m³/h.

Triplex Piston Membrane Pumps: The ABEL HMT is a single-acting, slow running and dry run protected Triplex Piston Membrane Pump.

Hydraulic Solids Transfer: For this purpose, ABEL HMT provides a perfect solution for the transfer of media with high TS content and specific weight.

ABEL HMT in action for

- Sludge transfer
- Backfilling
- Reactor feeding
- Process applications

Used in many sectors:

- Mining industry
- Chemical industry
- Petrochemical industry
- Off-shore industry

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ABEL HP / SH / SM Capacity ranges up to 275 m³/h; up to 25.0 MPa

ABEL HP



Capacity range: up to 55 m³/h; up to 25.0 MPa

ABEL HP – High Pressure Pumps are field proven in heavyduty

continuous operation. A singleacting triplex, reciprocating, plunger pump is supplied with an integral bypass system when used in conjunction with a filter press cloth washing system.

Available in ductile iron or stainless steel construction.

Customized units for higher pressure and flow rates are available.

ABEL SH



Capacity range: up to 103 m³/h; up to 16.0 MPa

ABEL SH Solids Pumps not only cover a wide capacity range, they are also suitable for a large number of pumping media and a vast variety of applications.

With the actual unit consisting of pump, drive and valve cylinders, the entire pump is made up of just 4 components:

The actual pump, the hydraulic drive unit, a screw conveyor to fill the product cylinders and a control cabinet with PLC (the "brain" of the system), which also provides for the integration into complex processes and control systems.

Application areas of the ABEL SH

- Transfer of dewatered sludges or filter cakes from
 - industry or communities
 centrifuges, chamber filter
 vacuum and belt presses
- Furnace feed with dewatered and pre-dried sludge, hazardous waste, chemical residues and solvents
- For mining engineering in backfilling and grout custains

ABEL SM



Capacity range: up to 275 m³/h; up to 4.0 MPa

Demands for higher flow rates in combination with higher operating pressures led to the development of the **ABEL SM Ppherical Membrane Pumps**. Within the scope of continuous product development over two decades the design has been adapted to the latest knowledge and requirements again and again.

ABEL SM spherical membrane pumps are duplex double-acting pumps convincing with high pump capacity, perfect function and extremely low operating and maintenance costs. The matured design guarantees high availability and operational reliability.

Application areas of the ABEL SM

- Sludge transfer
- Filter press feeding
- Water processing
- Mine dewatering
- Flue gas desulphurisation
- Ceramics industry

Cleaning Applications include:

- Filter Cloths
- Containers
- Equipment
- Pipelines

Feeding/charging applications:

- Reverse osmosis plants
- Boilers
- Reactors
- Other

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ABEL Service Concepts Optimum, planable long-term safety

Commissioning, repair, maintenance

The innovative ABEL Pump Technology not only presupposes matured and highly developed technology, but also intelligent After-Sales solutions aiming at maintaining the serviceable life of the pumps in the long run with minimum efforts.

For this, ABEL provides you with fully developed service concepts, including comprehensive services for your positive displacement pumps.

The efficient combination of technical competency, know-how, quickest resource access and the unparalleled ABEL Customer Service offers you the optimum reliability that you need to operate your equipment

local repairs

repairs in your plant

preventive maintenance

training of customer's personnel

installation and conversion of equipment

commissioning

telephone diagnostics

 maintenance / maintenance contracts

revision service



Original spare parts

24 hours service



original spare parts, quality tested acc. to DIN EN ISO 9001:2000

reasonable kits of wear items

understandable repair instructions

advice by telephone

reliable delivery with overnight service

wear item offers for optimal storage

parts exchange service for the complete product range

"safety stock" facility for each individual spare parts combination

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www.motralec.com

www.abel.de Latest information at a glance

Specialisation creates Know-How

Latest information, product supplements and innovations, information on -trade show everything concerning reciprocating positive displacement pumps can be found at www.abel.de.

Also in the net: Your ABEL sales engineers.

Through catchword search you obtain the desired information e. g. which pump is ideal for which area of application or which capacity range. In any case, it is worth visiting abel.de regularly.



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